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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,226	03/29/2004	Robert Eugene Stoddard	CELE-01001US0	3035
21603 7590 07/26/2007 DAVID E. LOVEJOY, REG. NO. 22,748			EXAMINER	
102 REED RAI	NCH ROAD		VO, DON NGUYEN	
TIBURON, CA 94920-2025			ART UNIT	PAPER NUMBER
			2611	<u>-</u>
			MAIL DATE	DELIVERY MODE
			07/26/2007	PAPER .

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Best Available Copy			
	Application No.	Applicant(s)	
	10/812,226	STODDARD ET AL.	
Office Action Summary	Examiner	Art Unit	• :
	DON N. VO	2611	1,
The MAILING DATE of this communication appeared for Reply	ars on the cover s	heet with the correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REPLY I	S SET TO EXPIR	RE 3 MONTH(S) OR THIRTY (30) D	AYS
WHICHEVER IS LONGER, FROM THE MAILING DAT	E OF THIS COM	MUNICATION.	
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period will a second to the second to</li></ul>			riestics !
<ul> <li>Failure to reply within the set or extended period for reply will, by statute, ca</li> <li>Any reply received by the Office later than three months after the mailing da</li> </ul>	use the application to be	come ABANDONED (35 U.S.C. § 133).	ilication.
earned patent term adjustment. See 37 CFR 1.704(b).		· · · · · ·	1
Status			: :
1) Responsive to communication(s) filed on			
	ction is non-final.	•.	
3)     Since this application is in condition for allowance		•	rits is
closed in accordance with the practice under Ex	parte Quayle, 193	35 C.D. 11, 453 O.G. 213.	
Disposition of Claims		•	!;
4)⊠ Claim(s) <u>1-48</u> is/are pending in the application.			i: i
4a) Of the above claim(s) is/are withdrawn	from consideration	on.	
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-44,47 and 48</u> is/are rejected.			
7) Claim(s) <u>45 and 46</u> is/are objected to.			
8) : Claim(s) are subject to restriction and/or e	lection requireme	ent.	. !!
Application Papers			-1
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accept	ted or b)⊡ objec	ted to by the Examiner.	. : !
Applicant may not request that any objection to the dra	wing(s) be held in	abeyance. See 37 CFR 1.85(a).	i i
Replacement drawing sheet(s) including the correction	is required if the d	rawing(s) is objected to. See 37 CFR 1.	121(d)
11) The oath or declaration is objected to by the Exan	niner. Note the at	tached Office Action or form PTO-1	52.
Priority under 35 U.S.C. § 119			<i>i</i> , ·
12) Acknowledgment is made of a claim for foreign pri	iority under 35 U.	S.C. § 119(a)-(d) or (f).	' ''
a) ☐ All b) ☐ Some * c) ☐ None of:	·		
1. Certified copies of the priority documents h	ave been receive	ed.	
2 Certified copies of the priority documents h	ave been receive	ed in Application No	;
3 Copies of the certified copies of the priority		_	je 🦠
application from the International Bureau (F	• • • • • • • • • • • • • • • • • • • •	•	í' .:
* See the attached detailed Office action for a list of	the certified copie	es not received.	
· '			
	•	•	
Attachment(s)			14
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)		erview Summary (PTO-413) per No(s)/Mail Date	. !
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Not	tice of Informal Patent Application	:
Paper No(s)/Mail Date <u>10/18/04</u> .	6) 🔲 Oth	er:	
Paper No(s)/Mail Date <u>10/18/04</u> .  Patent and Trademark Office  OL-326 (Rev. 08-06)  Office Action		er: Part of Paper No./Mail Date 20	070717

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#### **DETAILED ACTION**

#### **Double Patenting**

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F:3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 31 of copending Application No. 10/812,227. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 31 of copending Application No. 10/812,227 covers and encompasses the limitations of claim 1 of the instant application. Moreover, it is well settled that the omission of an element and its function is an obvious expedient if the remaining elements perform the same function as before. In re Karlson, 136 USPQ 184 (CCPA 1963).

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

### Claim Objections

3. Claims 2 and 7 are objected to because of the following informalities:

The recitation of "A1" recited in claim 2, line 1 is suggested to change to – 1 --; and

The recitation of "6where" is suggested to change to – 6 where --.

Appropriate correction is required.

#### Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 28 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitation of "a specification" is vague and indefinite because it is unclear of what specification it is referring to. If the "specification" is not defined, then it could cover all of the specification standards available.

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# Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1-40, 47 and 48 are rejected under 35 U.S.C. 102(e) as being anticipated by Nohara et al (US 2003/0103589).

Regarding claims 1-40, 47 and 48, Nohara, as shown in figures 1-3, teaches a method and apparatus for analyzing a received broadband signal based on a plurality of parameters including hopping time, hopping frequency, bandwidth, start time, stop time, rise time, fall time, modulation, FFT, etc... See also paragraphs [0006], [0029], [0031], [0032], [0039], [0040], [0042], [0043], [0051] – [0053], [0056] – [0063], [0065], [0075], [0076], [0083] - [0085] and [0089].

#### Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 10. Claims 41-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nohara et al (US 2003/0103589) in view of Makarov (US 7,075,948).

Nohara teaches all subject matter claimed except for measuring the symbol rate using the analysis of zero crossings. However, Makarov teaches determining the symbol rate using the analysis of zero crossing. See Makarov: column 10, lines 10-19; column 10, line 66 to column 11, line 20 and column 13, lines 6-30. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Nohara et al by employing the technique of determining the symbol rate using the analysis of zero crossing as taught by Makarov if the symbol rate is to be determined and the result of zero crossing analysis can be used to determine and adjust the offset error and thus improving the receiver performance.

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Allowable Subject Matter

Claims 45 and 46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References Ishifuji et al (US 6,061,389) and Adachi (US 2001/0022806) are cited because they are pertinent to time hopping and frequency hopping receiver. However, none of the cited references teaches the further limitations of calculating the symbol period as recited in claims 45 and 56.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on Mon-Fri (9:00AM 6:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON N. VO Primary Examiner

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